9900411

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHAML COME:

Pioneer Hi-Bred International, Inc.

There has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPERISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE OVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT TIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

ALFALFA

'53H81'

In Testimony Thereof, I have hereunto set my hand and caused the seal of the Hunt Duriety Hertestan Office to be affixed at the City of Washington, D.C. this twenty-fourth day of April, in the year of our Lord two thousand one.

alank fort

Acting Commissioner Plant Varioty Protection Office Agricultural Marketing Service rotary of Agriculture

EXHIBIT A

ORIGIN AND BREEDING HISTORY OF THE VARIETY

'53H81'

53H81 is a 13 clone synthetic cultivar tracing to various Pioneer experimentals. Parents were selected phenotypically for one or more of the following: resistance to Aphanomyces root rot, Phytophthora root rot, Verticillium wilt, Fusarium Wilt, bacterial wilt, and potato leafhopper; field appearance, spring and fall growth. Parents were also selected through progeny testing for resistance to potato leafhopper, and field appearance in Platteville and Arlington, WI. Syn. 1 breeder seed was produced by intercrossing replicated stem cuttings of the 13 parent clones and bulking all seed. Parent plants trace primarily to the following varieties and germplasms: XAE49 (61%), 5347LH (35%), 5246 (2%), Mn-GRN2 (2%), and traces of several other sources.

This variety was observed over three generations and found to be uniform and stable.

No variants were observed during seed (breeder, foundation and commercial) multiplication procedures.

It is confirmed that 53H81 meets presently acceptable levels for uniformity for alfalfa varieties.

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EXHIBIT B

NOVELTY STATEMENT

'53H81'

53H81 most closely resembles the variety 53V63. 53H81 differs from 53V63 primarily in its resistance to Potato Leafhopper (53H81 = 54.1%, 53V63 = 23.7%) and Phytophthora root rot (53H81 = 49.7%, 53V63 = 79.0%).

These two varieties also differ in flower color: 53H81 has 42% purple, 46% variegated, 5% blue, and 7% yellow, while 53V63 has 63% purple, 33% variegated, 4% yellow.

EXHIBIT C (ALFALFA)

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK AND SEED DIVISION PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY

		ALFALFA	(Medicago sativa sen	su Gunn et al.)				
NAME OF APPLICANT(S)			TEMPORARY DE	SIGNATION	VARIETY NAME			
Pioneer Hi-Bred International, Inc.			X53H81	X53H81		53H81		
ADDRESS (Street and No., or R.F.D.	No., City, State, and Zi	ip Code)			FOR	OFFICIAL USE ONLY		
7305 N.W. 62 Johnston, IA	and Ave., P.O. Bo 50131	x 287			PVPO NUMBER	9900411		
PLEASE READ ALL INSTRUCTION application variety. Data for quartecessary (e.g. 0 8 9 for quantecolor may be precisely designated.)	ititative plant chara itative data. Comp	cters should be base arative data should b	ed on a minimum of 1 se determined from va	00 plants. Include le prieties entered in the	ading zeros when e same trial Plant	of the commerical ge	nerations of the	
1. WINTERHARDINESS:								
3 5 7 9	= Very Non-Winterhan = Intermediately Non-I = (Du Puits) = (Ranger) = Extremely Winterhan = EXT LOCATION:	Winterhardy (Mesilla) rdy (Norseman)	2 = Non-Winterh 4 = Semi-Winterl 6 = Moderately V 8 = Winterhardy	hardy (Lahontan) Vinterhardy (Saranac)				
2. FALL DORMANCY:	I	FALL DORMANCY (D	DETERMINED FROM	SPACED PLANTING:	S)			
				REGROWTH SCORE O	R AVERAGE HEIGHT			
TESTING INSTITUTION AND LOCATION	DATE OF LAST CUT	DATE REGROWTH SCORED	APPLICATION		CHECK VARIETIES*		LSD .05	
			VARIETY	Vernal	Saranac	Archer		
Pioneer Hi-Bred International, Inc. Eau Claire, WI	8/26/98	10/6/98	33.3	26.1	36.8	40.3	4.0	
* CUF 101, Moapa 69, Mesilla, Lahonta	 n, Du Puits, Saranac, i	Ranger, Vernal, or Norse	eman as appropriate.	1	<u> </u>			
	latural plant heigh							
6 Fall Growth Habit (Determ							_	
` 1=	: Erect (CUF 101) : Semidecumbent (Ver	3 = Sen	nierect (Mesilla) sumbent (Norseman)	5 = Intermediate (S	aranac)			
	t (CUF 101) v (Norseman TION: <u>Arlingt</u>	3 = Fas	t (Saranac)	5 = Intermediate (R	anger)	7 = Slow (Vernal)	0 (49%) <u> </u>	
4. AREAS OF ADAPTATION IN U.S. (Wi		ı adapted):		1 ott	er Areas of Adaptation			
1 = North Ce 5 = Moderate 8 = Other (S)	ly Winterhardy Interm	2 = East Central ountain	3 = So 6 = Winterhardy I		= Southwest 5 = Great Plains 4		3	
Days Earlier Than	· · · · · · · · · · · · · · · · · · ·	vers at time of first sprin 1 = CUF 1		Mesilla 3 ≒	Saranae 4-1	ernal En November	The man	
Days Later Than	TEST LOCATION	1 - COF 1	J. Z=	менна 3 2	Saranac 4 = V	ernal 5 ≃ Nor	rseman	

6. PLANT COLOR (Determined	from healthy regrowth 3 we	eks after first sp	ring cut, controlling le	eafhoppers if necessa	irv):			
1 = Very Dark Gre	Green (524) 2 = Dark Green (Vernal) 3 = Light Green (Ranger)							
COLOR CHART V	COLOR CHART VALUE(Specify chart used)							
APPLICATION VARIETY:								
VERNAL:								
7. CROWN TYPE (Determined fro								
Noncreeping T	ypes: 1 = Broad (Ve	ernal)	2 = Intermediate (Sa	ranac)	3 = Narrow (0	CUF 101)		
Creeping Type:	s: 4 = Creeping	Rooted (Rangela	ınder)	5 = Rhizomatous	(Rhizoma)			
8. FLOWER COLOR (Determine fr	equency of plants for each	color class as d			. 424 (Barnes 1	972), allowing all pla	ants in plot to flower):	
	iolet (Subclasses 1.1 to 1.4)	[0]0	5 % Blue (Subc	lasses 2,3 and	2.4)		
0 4 6 % Variegated O	ther Than Blue (Subclasse	s 2.1, 2.2, 2.5 to 2	(e.s	7 % Yellow (Su	bclasses 4.1 to	4.4)	•	
t % Cream (Class	: 3)			t % White (Clas	ss 5)			
	N: <u>Connell. WA</u>							
9. POD SHAPE (Determine frequen	acy of plants with the follow	ving pod shapes	produced on well cro	ss-pollinated raceme	es):			
% Tightly Coiled	l (One or more coils, cente	more or less clo	sed)	% Loosely Co	iled (One or m	ore coils, center con	spicuously open)	
% Sickle (Less t	<u> </u>							
10. PEST RESISTANCE: Provide in index sco	the appropriate column, to	ial data for appli	cation variety, and re-	sistant (R) and susce	ptible (S) check	k varieties, synthetic	generation tested, average severity whether test is a field or laboratory	
evaluation	 Describe scoring system should be presented when 	1, and any test pr	ocedure which differ:	s from standard meth	ods proposed	by Elgin (1982). Tria	l data from other test years or	
Seeds of t	he check varieties and ger	mplasm lines fist	ed below can be obta	ined from the USDA I	Field Crops Lai	poratory, Bldg. 001,	Rm. 335, BARC-West, Beltsville, MD ommended by Elgin (1982) may be	
presented		aleck valleties is	sted below are prefer	eu, compansons wit	i any appropria	ite cneck variety rec	ommended by Eigin (1982) may be	
A. DISEASE RESISTANCE:	VARIETY	SYN. GEN,	PERCENT RESISTANT	NUMBER OF	ASI	ASI	INSTITUTION, YEAR, LOCATION,	
DISEASE	VANCET	TESTED	PLANTS	PLANTS TESTED	,,,,	LSD .05	FIELD OR LABORATORY	
Anthracnose, Race 1 (Colletotrichum trifolii)	Application HR	1	93.3	~125		% Resistant Plants	Pioneer Hi-Bred Int'l, Inc. 1999	
	Arc (B)	<u></u>				15.8	Arlington, WI	
•	Arc (R)		65.0	~125			Laboratory	
	Saranac (S)		5.8	~125		·		
	SCORING SYSTEM:	Standard	test					
Anthracnose, Race 2 (Colletotrichum trifolii)	Application				!			
	Saranac AR (R)				-			
. •	Arc (S)							
	SCORING SYSTEM:							
Bacterial Wilt			<u> </u>					
(Corynebacterium insidiosum)	Application			ĺ				
	Vernai (R)							
	101101 (11)							
	Narragansett (S)							
	SCORING SYSTEM:							
Common Leafspot (Pseudopeziza medicaginis)	Application							
	MCA CIMIZATO ID							
	MSA-CW3An3 (R							
	Ranger (S)							
İ	SCORING SYSTEM:							

FORM LS-470-32 (4-85)

DISEASE	VARIETY	SYN. GEN. TESTED	PERCENT RESISTANT PLANTS	NUMBER OF PLANTS TESTED	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION, FIELD OR LABORATORY	
Downy Mildew (Peronospora trifoliorum)	Application							
Isolate, if known:	Saranac (R)							
	Kanza (S)							
	SCORING SYSTEM:					<u> </u>		
Fusarium Wilt (Fusarium oxysporum f. medicaginis)	Application							
	Agate (R)							
	MNGN-1 (S)							
	SCORING SYSTEM:			.I .				
Phytophthora Root Rot (Phytophthora megasperma f. medicaginis)	Application R	1	49.7	~240		% Resistant Plants	Pioneer Hi-Bred Int'l., Inc.	
	Agate (R)		33.0	~240		15.0	Arlington, WI Laboratory	
	Saranac (S)		2.1	~240				
	SCORING SYSTEM: Standard test							
Verticillium Wilt (Verticillium alboatrum)	Application HR	1	55.3	~125		plants 18.1	Pioneer Hi-Bred Int'l, Inc. 1998 Arlington, WI	
	Oneida VR(R]		60.0	~125			Laboratory	
	Saranac (S)		3.7	~125				
	SCORING SYSTEM:	Standar	d test			1.		
Other <i>(Specity)</i> Aphanomyces root rot	Application HR	1	67.0	~150		% Resistant plants	Pioneer Hi-Bred Int'l, Inc. 1999 Arlington, WI	
phanomyces euteiches	WAPH-1(50.0	~150		17.2	Arlington, WI Laboratory	
	Agate (S;		3.2	~150				
	SCORING SYSTEM:	Standard	test	, ,				
Other (Specify)	Application							
	(R)							
-	(S)							
	SCORING SYSTEM:			<u>1</u>		<u> </u>		
ISECT RESISTANCE: INSECT	VARIETY	SYN, GEN. TESTED	PERCENT DEFOLIATION	DEFOLIATION IN PERCENT OF RESISTANT CHECK	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION, FIELD OR LABORATORY	
Alfalfa Weevil (Hypera postica)	Application		÷					
	Arc (R)			100				
	Saranac (S)							
j -	SCORING SYSTEM:							

40 B INSECT DESIGNATION (O	· · · · · · · · · · · · · · · · · · ·						1100711
10. B. INSECT RESISTANCE (Con	tinuea):	T	PERCENT	NUMBER OF	T		. \
INSECT	VARIETY	SYN. GEN. TESTED	SEEDLING SURVIVAL	SEEDLINGS TESTED	ASI	ASI LSD.05	INSTITUTION, YEAR, LOCATION FIELD OR LABORATORY
ıe Alfalfa Aphid	Application	:					
cyrthosiphon kondoi)						-	
	58A90 (R)						4
	CUF101 (S)						
	SCORING SYSTEM:						
Pea Aphid (Acyrthosiphon pisum)	Application R	1	33.9	~300		% Resistant Plants	Pioneer Hi-Bred Int'l, Inc. 1998
	PA-1 (HR)		55.0	~300		15.8	Johnston, IA Laboratory
	Ranger (S)		3.9	~300	İ		
	SCORING SYSTEM:	Standar	d test				
Control Atrata Action		I	T				
Spotted Alfalfa Aphid (Therioaphis maculata) Biotype, if known:	Application MR	1	24.7	~300		% Resistant Plants 8.2	Pioneer Hi-Bred Int'l, Inc. 1999 Connell, WA
	CUF101 (HR)		60.0	~300			Laboratory
	Caliverde (S)		0.5	~300			N.
	SCORING SYSTEM:	Standard	test	·		1	······································
INSECT	VARIETY	SYN. GEN, TESTED	PERCENT RESISTANT PLANTS	NUMBER OF PLANTS TESTED	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION. FIELD OR LABORATORY
tato Leafhopper Yellowing (Empoasca fabae)	Application						f
	PLH25 (MR)	· · · · · · · · · · · · · · · · · · ·				1	
	Ranger (S)						
	SCORING SYSTEM:		 				· · · · · · · · · · · · · · · · · · ·
Other (Specify) to Leafhopper Resistance	Application HR	1	54.1	~100		% Resistant	Pioneer Hi-Bred Int'l, Inc.
	(HR) PLH25		25.0	~100		Plants 23.6	1999 Princeton, IL Field
(Empoasca fabae)						-	
	(S) Ranger scoring system:	Standard	0.0 I fest	~100			
NEW TOPE DECISION		- Tundid					
NEMATODE RESISTANCE: NEMATODE	VARIETY	SYN. GEN. TESTED	PERCENT RESISTANT PLANTS	NUMBER OF PLANTS TESTED	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION, FIELD OR LABORATORY
Northern Root Knot (Meloidogyne hapla)	Application						
	SYN YY (HR]						
	Lahontan (S)					1	
				<u> </u>		,	1

NEMATODE	VARIETY	SYN. GEN. TESTED	PERCENT RESISTANT	NUMBER OF PLANTS TESTED	ASI	ASI LSD.05	INSTITUTION, YEAR, LOCATION	
		120120	PLANTS	PLANIS IESTED		L3D .05	FIELD OR LABORATORY	
Southern Root Knot (Meloidogyne incognita)	Application	:						
	Moapa 69 (R)							
	Lahontan (S)							
	SCORING SYSTEM:							
Stem Nematode (Ditylenchus dipsaci)	Application R	1	38.8	~250		% Resistant Plants 1999 16.1 Plants Connell, WA Laboratory		
	Vernema (R)		60.0	~250				
	Ranger (S)		5.7	~250				
	SCORING SYSTEM:	Standard	test	•				
Other (Specify)	Application						·	
	(R)							
	(S)							
	SCORING SYSTEM:							

11. INDICATE THE VARIETY THAT MOST CLOSELY RESEMBLES THE APPLICATION VARIETY FOR EACH OF THE FOLLOWING CHARACTERS:

CHARACTER	VARIETY	CHARACTER	VARIETY
Winterhardiness	54H69	Plant Color	-
Recovery After 1st Cut	54H69	Crown Type	-
Area of Adaptation	54H69	Combined Disease Resistance	53V63
Flowering Date	-	Combined Insect Resistance	53V63

REFERENCES

Barnes, D.K. 1972. A System for Visually Classifying Alfalfa Flower Color. U.S. Dep. Agric, Handb. 424. 18 pp. (Note: Greenish cast of plate 6, A and B is an artifact of printing, actual colors a blend of yellow and white.)

Elgin, J.H., Jr., (ed.). 1982. Standard Tests to Characterize Pest Resistance in Alfalfa Cultivars. U.S. Dep. Agric. Tech. Bull. (In Press).

Gunn, C.R., W.H. Skrdla, and H.C. Spencer. 1978. Classification of Medicago sativa L. using legume characters and flower colors. U.S. Dep. Agric. Tech. Bull. 1574. 84 pp.

Munsell Color Co. 1977. Munsell Plant Tissue Color Charts. Munsell Color Co., Inc. Baltimore.

NOTE: Any additional descriptive information and supporting documentation may be provided as Exhibit D.

FORM LS-470-32 (4-85)

EXHIBIT D

'53H81'

53H81 is a 13 clone synthetic cultivar tracing to various Pioneer experimentals. Parents were selected phenotypically for one or more of the following: resistance to Aphanomyces root rot, Phytophthora root rot, Verticillium wilt, Fusarium Wilt, bacterial wilt, and potato leafhopper; field appearance, spring and fall growth. Parents were also selected through progeny testing for resistance to potato leafhopper, and field appearance in Platteville and Arlington, Wl. Syn. 1 breeder seed was produced by intercrossing replicated stem cuttings of the 13 parent clones and bulking all seed. Parent plants trace primarily to the following varieties and germplasms: XAE49 (61%), 5347LH (35%), 5246 (2%), Mn-GRN2 (2%), and traces of several other sources. Original germplasm source contributions are: M. Falcata (6.8%), Ladak (6.8%), Medicago varia (28.1), Turkistan (2.0%), Flemish (39.9%), Chilean (4.9%), KS108GH5 (2.9%), KS94GH6 (2.9%), and 81IND-2 (2.9%) and 2.8% unknown.

53H81 is adapted to and intended for use primarily in the East central, and North central, regions of the United States.

53H81 is a dormant cultivar with an expected fall dormancy similar to Ranger. Flower color in the Syn. 2 generation is approximately 42% purple, 46% variegated, 5% blue and 7% yellow, with traces of white and cream

53H81 is highly resistant to Aphanomyces root rot, anthracnose (race 1), Verticillium wilt, and potato leafhopper; resistant to Phytophthora root rot, stem nematode and pea aphid; moderately resistant to spotted alfalfa aphid; susceptible to blue alfalfa aphid (biotype 2).

Breeders seed (Syn 1) was produced on 103 plants (representing approximately equal numbers from each parent clone) in the greenhouse in Arlington, WI and bulked during the winter of 97-98. Seed classes will be breeder, foundation (Syn 2 or 3), and certified (Syn 3 or Syn 4). Foundation seed may be produced from breeder or foundation. The second generation foundation seed may be produced at the discretion of Pioneer Hi-Bred International, Inc. Limitations of age of stand will be three and five years, respectively, for foundation and certified seed.

REPRODUCE LOCALLY. Include form number and date on all reproduction	25. FORM APPROVED - OMB NO. 0581-0055 EXPIRES: 12-31-
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFIC	The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER 3. VARIETY NAME
Pioneer Hi-Bred International, Inc.	X53H81 53H81
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)	5. TELEPHONE (include area code) 6, FAX (include area code)
7205 NIM 62nd Ava	(515) 270-3347 (515) 270-3750
7305 N.W. 62nd Ave. P.O. Box 287	7. PVPO NUMBER
Johnston, IA 50131	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate	
	X YES NO
₩ 10	
Is the applicant (individual or company) a U.S. national or U.S. based comparis if no, give name of country	
10. Is the applicant the original breeder? If no, please answer the following:	
10. Is the applicant the original breeder? If no, please allower the following:	X YES NO
 a. If original rights to variety were owned by individual(s): ls (are) the original breeder(s) a U.S. national(s)? If no, give name of 	country
, , , , , , , , , , , , , , , , , , , ,	
	
 b. If original rights to variety were owned by a company: ls the original breeder(s) U.S. based company? If no, give name of company? 	ountry
11. Additional explanation on ownership (If needed, use reverse for extra space	a)·
,	<i>y</i> ,
PLEASE NOTE:	
Plant variety protection can be afforded only to owners (not licensees) who n	neet one of the following criteria:
 If the rights to the variety are owned by the original breeder, that person n of a country which affords similar protection to nationals of the U.S. for th 	nust be a U.S. national, national of a UPOV member country, or national e same genus and species.
If the rights to the variety are owned by the company which employed the nationals of a UPOV member country, or owned by nationals of a country genus and species.	original breeders(s), the company must be U.S. based, owned by which affords similar protection to nationals of the U.S. for the same
3. If the applicant is an owner who is not the original breeder, both the origin	al breeder and the applicant must meet one of the above criteria.
The original breeder may be the individual or company who directed final bre definition.	eeding. See Section 41(a)(2) of the Plant Variety Protection Act for
Public reporting burden for this collection of information is estimated to average 10 minutes per responsion maintaining the data needed, and completing and reviewing the collection of information. Send commensuggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 763 0581-0055 and form number in your letter.	ts regarding this burden estimate or any other aspect of this collection of information, including
Under the PRA of 1995, no persons are required to respond to a collection of information unless it display	ys a valid OMB control number.
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To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 2 employment opportunity employer.	20250, or call (202) 720-7327 (voice) or (202) 720-1127 (TDD). USDA is an equal
STD-470-E (03-96)	